

AF updated Search  
10/761,721

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1116	(standby or stand-by or "stand by" or spare or backup or back-up or "back up") adj processor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:25
L2	75	(hold\$3 or keep\$3) same L1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:25
L3	72706	(set\$3 or assign\$4) same bit same register	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:28
L4	29	dynamic\$4 same (activat\$4 or operat\$3 or execut\$3) same ((spare or backup or back-up or "back up") adj processor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:44
L5	1116	(standby or stand-by or "stand by" or spare or backup or back-up or "back up") adj processor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:32
L6	29	L4 and L5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:33
L7	937943	(POST or "power on self test")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:34
L8	965	3 same L7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:36

## EAST Search History

L9	9	2 and 8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:37
L10	1	9 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:37
L11	53385	(active or inactive) adj (state or mode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:45
L12	2	2 same 11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:45
L13	565	(714/13).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 08:59
L14	309	(714/12).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 08:53
L15	700	(714/11).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 08:53
L16	0	system adj management adj interrupt	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:55
L17	17	allocat\$3 same (load\$3 or switch-over or "switch over") same ((fail\$3 or error\$3 or problem or defect\$3 or malfunction) adj processor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:59

## EAST Search History

L18	3	17 and 7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:59
L19	4	("714"/\$).cccls. and 17	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 09:00
L20	212	(fox-thomas\$ or kern-eric\$ or rollins-michael\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 09:00
L21	12	("714"/\$).cccls. and L20	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/26 09:12
L22	628	hot-spare or (hot adj spare)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 09:12
L23	1	22 and 17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 09:13
L24	1	22 and 2 and 7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 09:13

## EAST Search History

S6	888192	(POST or "power on self test")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 15:27
S7	172722	(BIOS or "basic input/output system")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 15:28
S8	0	S5 and S6 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 15:28
S9	42411	(failover or fail-over or (fail adj over)) dsmr (multiprocessor or multi-provessor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 15:29
S10	45	(failover or fail-over or (fail adj over)) same (multiprocessor or multi-provessor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 07:20
S11	1	S10 and S6 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 15:29
S12	5	S10 and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 15:32
S13	2	S10 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 15:34

## EAST Search History

S14	632	(spare or backup or back-up or "back up") adj processor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 17:19
S15	4	S10 and S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 15:34
S16	1	"3786433".PN.	USPAT; USOCR	OR	ON	2006/08/16 16:16
S17	1	"4153198".PN.	USPAT; USOCR	OR	ON	2006/08/16 22:43
S18	1	"4350225".PN.	USPAT; USOCR	OR	ON	2006/08/16 22:43
S19	1	"4351023".PN.	USPAT; USOCR	OR	ON	2006/08/16 22:43
S20	1	"4562575".PN.	USPAT; USOCR	OR	ON	2006/08/16 22:43
S21	1	"5185693".PN.	USPAT; USOCR	OR	ON	2006/08/16 22:43
S22	1	"5251299".PN.	USPAT; USOCR	OR	ON	2006/08/16 22:43
S23	1	"5696895".PN.	USPAT; USOCR	OR	ON	2006/08/16 22:45
S24	1	"5781715".PN.	USPAT; USOCR	OR	ON	2006/08/16 22:50
S25	1	"5784551".PN.	USPAT; USOCR	OR	ON	2006/08/16 22:51
S26	1	"5898829".PN.	USPAT; USOCR	OR	ON	2006/08/16 22:51
S27	1	"6002970".PN.	USPAT; USOCR	OR	ON	2006/08/16 23:00
S28	1	"6065135".PN.	USPAT; USOCR	OR	ON	2006/08/16 23:03
S29	1	"6138247".PN.	USPAT; USOCR	OR	ON	2006/08/16 23:03
S30	1	"6240526".PN.	USPAT; USOCR	OR	ON	2006/08/16 23:21
S31	1	"6425092".PN.	USPAT; USOCR	OR	ON	2006/08/16 23:36
S32	1	"6470462".PN.	USPAT; USOCR	OR	ON	2006/08/16 23:44

## EAST Search History

S33	1	"6550018".PN.	USPAT; USOCR	OR	ON	2006/08/16 23:47
S34	1	"6785840".PN.	USPAT; USOCR	OR	ON	2006/08/16 23:48
S35	1	"20030159084".PN.	US-PGPUB	OR	ON	2006/08/16 23:50
S36	45	(failover or fail-over or (fail adj over)) same (multiprocessor or multi-provessor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 07:18
S37	1035	(standby or stand-by or "stand by" or spare or backup or back-up or "back up") adj processor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 07:19
S38	80	(failover or fail-over or (fail adj over)) same (multiprocessor or multi-provessor or "multi processor")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 07:21
S39	1	S37 same S38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 07:21
S40	4	S37 and S38 and "6" and "7"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 07:21
S41	889048	(POST or "power on self test")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 07:21
S42	172999	(BIOS or "basic input/output system")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 07:21

## EAST Search History

S43	1	S37 and S38 and S41 and S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 07:24
S44	1	S37 and S38 and S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 07:23
S45	1	S37 and S38 and S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 07:22
S46	456249	(detect\$4 or monitor\$3 or track\$3 or check\$3) near3 (fail\$4 or error\$4 or problem or malfunction or fault\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 07:25
S47	8	hot adj (switch-over or "switch over" or switchover)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 07:26
S48	4	S37 and S38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 07:26
S49	27	dynamic\$4 same (activat\$4 or operat\$3 or execut\$3) same ((spare or backup or back-up or "back up") adj processor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:32
S50	1089	(standby or stand-by or "stand by" or spare or backup or back-up or "back up") adj processor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 17:23

## EAST Search History

S51	1	(set\$3 or assign\$4) same bit same register same S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 17:24
S52	6	(set\$3 or assign\$4) same bit same register same S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 08:28
S53	1	S49 and S50 and S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 17:24
S54	677	(714/11).ccls.	US-PGPUB; USPAT	OR	ON	2007/01/15 17:24
S55	548	(714/13).ccls.	US-PGPUB; USPAT	OR	ON	2007/01/15 17:24
S56	297	(714/12).ccls.	US-PGPUB; USPAT	OR	ON	2007/01/15 17:24



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# 1 [Balancing power consumption in multiprocessor systems](#)



Andreas Merkel, Frank Bellosa

April 2006 **ACM SIGOPS Operating Systems Review , Proceedings of the 2006****EuroSys conference EuroSys '06**, Volume 40 Issue 4

Publisher: ACM Press

Full text available: [pdf\(688.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Actions usually taken to prevent processors from overheating, such as decreasing the frequency or stopping the execution flow, also degrade performance. Multiprocessor systems, however, offer the possibility of moving the task that caused a CPU to overheat away to some other, cooler CPU, so throttling becomes only a last resort taken if all of a system's processors are hot. Additionally, the scheduler can take advantage of the energy characteristics of individual tasks, and distribute hot tasks ...

**Keywords:** energy estimation, energy-aware scheduling, event counters, task migration, thermal management

# 2 [Devirtualizable virtual machines enabling general, single-node, online maintenance](#)



David E. Lowell, Yasushi Saito, Eileen J. Samberg

 October 2004 **ACM SIGARCH Computer Architecture News , ACM SIGOPS Operating Systems Review , ACM SIGPLAN Notices , Proceedings of the 11th international conference on Architectural support for programming languages and operating systems ASPLOS-XI**, Volume 32 , 38 , 39 Issue 5 , 5 , 11

Publisher: ACM Press

 Full text available: [pdf\(174.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Maintenance is the dominant source of downtime at high availability sites. Unfortunately, the dominant mechanism for reducing this downtime, cluster rolling upgrade, has two shortcomings that have prevented its broad acceptance. First, cluster-style maintenance over many nodes is typically performed a few nodes at a time, making maintenance slow and often impractical. Second, cluster-style maintenance does not work on single-node systems, despite the fact that their unavailability during maintenance ...

**Keywords:** availability, online maintenance, planned downtime, virtual machines



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Terms used

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- 1

[Applications: Evaluation of database management systems for Erlang](#)  
Emil Hellman  
September 2006 **Proceedings of the 2006 ACM SIGPLAN workshop on Erlang ERLANG '06**  
**Publisher:** ACM Press  
Full text available: [pdf\(291.35 KB\)](#)  
Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)  
Erlang/OTP's DBMS Mnesia is lacking in several important areas to consider when implementing very large datab requirements. This article reveals the result from a study examining what Erlang developers consider important : hierarchy process (AHP) evaluation on four mature open source DBMSs based on those criteria. AHP is suggested Erlang projects. The criteria used in this evaluation were derived f ...  
**Keywords:** AHP, DBMS, Erlang

2

[Starting a university microcomputer maintenance program](#)  
Roger N. Addelson, Don M. Wee  
September 1986 **Proceedings of the 14th annual ACM SIGUCCS conference on User services: setting the di**  
**Publisher:** ACM Press  
Full text available: [pdf\(2.73 MB\)](#)  
Additional Information: [full citation](#), [citings](#), [index terms](#)

3

[A highly available scalable ITV system](#)  
M. N. Nelson, M. Linton, S. Owicki  
December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium o**  
**SOSP '95**, Volume 29 Issue 5  
**Publisher:** ACM Press  
Full text available: [pdf\(1.64 MB\)](#)  
Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

4

[Reliability Issues in Computing System Design](#)  
B. Randell, P. Lee, P. C. Treleven  
June 1978 **ACM Computing Surveys (CSUR)**, Volume 10 Issue 2  
**Publisher:** ACM Press  
Full text available: [pdf\(3.95 MB\)](#) . Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	561	(714/13).ccls.	US-PGPUB; USPAT	OR	ON	2007/03/26 22:27
L2	308	(714/12).ccls.	US-PGPUB; USPAT	OR	ON	2007/03/26 22:27
L3	696	(714/11).ccls.	US-PGPUB; USPAT	OR	ON	2007/03/26 22:27
L4	483	(714/10).ccls.	US-PGPUB; USPAT	OR	ON	2007/03/26 22:27
L5	755	(standby or stand-by or "stand by" or spare or backup or back-up or "back up") adj processor	US-PGPUB; USPAT	OR	ON	2007/03/26 22:29
L6	88	(failover or fail-over or (fail adj over)) same (multiprocessor or multi-provessor or "multi processor")	US-PGPUB; USPAT	OR	ON	2007/03/26 22:29
L7	583074	(POST or "power on self test")	US-PGPUB; USPAT	OR	ON	2007/03/26 22:29
L8	143806	(BIOS or "basic input/output system")	US-PGPUB; USPAT	OR	ON	2007/03/26 22:29
L9	42872	(active or inactive) adj (state or mode)	US-PGPUB; USPAT	OR	ON	2007/03/26 22:30
L10	569	hot-spare or (hot adj spare)	US-PGPUB; USPAT	OR	ON	2007/03/26 22:30
L11	13	allocat\$3 same (load\$3 or switch-over or "switch over") same ((fail\$3 or error\$3 or problem or defect\$3 or malfunction) adj processor)	US-PGPUB; USPAT	OR	ON	2007/03/26 22:32
L12	72706	(set\$3 or assign\$4) same bit same register	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 22:32
L13	1116	(standby or stand-by or "stand by" or spare or backup or back-up or "back up") adj processor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 22:32
L14	147	L13 and L12	US-PGPUB; USPAT	OR	ON	2007/03/26 22:33

## EAST Search History

L15	21	5 and 7 and 8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 22:33
L16	1	15 and 9 and 12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 22:33
L17	1	10 and 12 and 13 and 1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 22:34
L18	0	10 and 12 and 13 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 22:34
L19	2	10 and 12 and 13 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 22:34
L20	0	10 and 12 and 13 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 22:34
L21	1	14 and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 22:34